Dynamix E210 IP Phone
User Manual

Dynamix Promotions Ltd

Dynamix Promotions Ltd reserve right to make improvements of equipment not noticed in this manual.

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1. Getting Started

About

Dynamix E210 IP Phone is next-generation 1-line SIP phone, dual 10/100Mbps auto-sensing Ethernet port. The Dynamix E210 IP Phone offers excellent voice clarity, call transfer, multi-party conferences, voice mail, Do Not Disturb, PSTN, and Headset etc.

Feature Highlights:

- HD Voice: HD Codec
- Support unified maintenance and auto upgrade
- Support Plug and Play
- Enterprise Phone Book
- Support PSTN interface
- Support Headset interface

Technical Features

Item	Technical Features
Screen	16*2 characters LCD with background light
Language	English
Line	1
Function Keys	6 Navigation keys (arrow button, OK button, C button) Volume button (multiplex up and down keys) Hands-free Mute Headset Message Menu Hold Redial Conference Transfer
VoIP Protocol	SIP 2.0
Network Protocol	HTTP、DHCP、TFTP、*IEEE 802.1Q、*IEEE 802.1X
Codec	G.723.1 (5.3K 6.4K b/s)、G.729 A (8Kb/s)、G.711 A/U (64Kb/s), G.722

QoS	TOS, Jiffer Buffer, VAD, CNG, G.168 (32ms)
Network	2*RJ45 10/100M Ethernet interfaces IP Assignment: Static IP or DHCP DNS Client
Speech	Handle, Headset and Hands-free mode available Support call center headsets Separated 8 Level Volume Adjustment
Call Processing	Call Waiting, Call Queuing Call Forward, Call Transfer, Call Holding, Call Pickup, Callback Redial Phone directory speed dial, call record direct dial 3-way conference DnD Voice mail, Voice Prompt, Voice Message
Application	Phone directory
Security	User authentication for configuration pages
Management	Upgrade: HTTP/TFTP/PnP auto-provision Configurations: Phone/Web/auto-provision Debug: Telnet/Phone/Web
Power Supply	Power adapter: AC100~240V input and DC 5V/1.2Aoutput
Specification	Storage Temperature: 0℃~60℃ Operating Humidity: 10%~90% Size: 168mm*205mm*85mm

2. Connecting Your Phone

Your system administrator will likely connect your new Dynamix E210 IP Phone to the corporate IP telephony network. If that is not the case, refer to the graphic and table below to connect your phone.

1) Open the box of Dynamix E210 IP Phone, carefully check the packing list as follow:

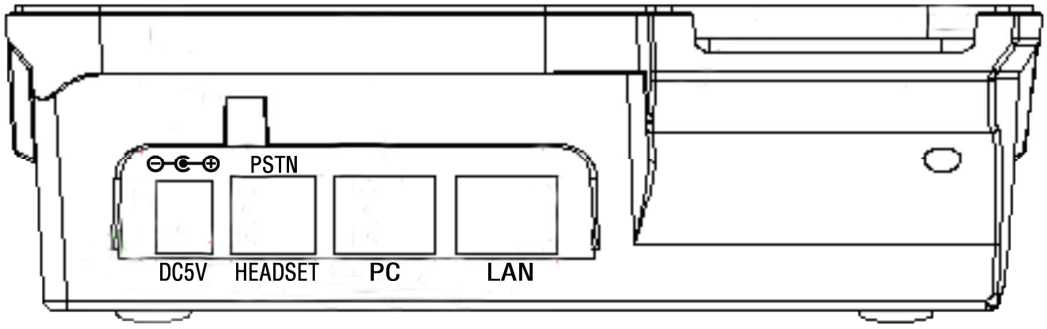
Item	Counts
IP Phone	1
Handset	1
Handset Cord	1
Power adapter	1
RJ45 cable	1
RJ11 cable	1
CD	1
Quick Installation	1
Quick User Guide	1

2) As shown in figure 2.1, please plug Handset Cord into RJ11 interfaces (IP Phone and Handset), RJ45 cable into the LAN interface

3) The phone must work together with power adapter.

4) If you want connect your computer into LAN at the same time, please connect your computer to PC interface of the phone with a RJ45 cable.

Figure2.1 Interfaces of Dynamix E210 IP Phone



3. Phone overview

Understanding Buttons and Hardware

You can identify buttons and hardware on your Dynamix E210 IP Phone from figure 3.1.

Figure 3.1 Dynamix E210 IP Phone

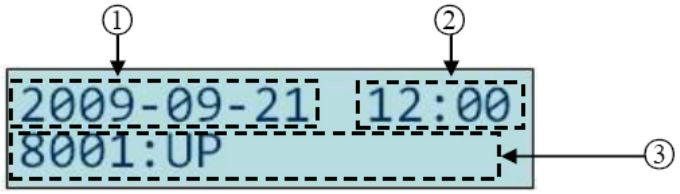
	Item	Description
1		Headset button: Toggles the headset on or off. When the headset is on, the light is red .
2		Mute button: Toggles the Mute feature on or off. When Mute is on, the light is red .
3		Message button: Auto-dials your voice message service.
4	MENU	Menu button: Allows you to scroll through menus.
5	0-9 , * , #	Basic Call Handling: press “#” send out a call by default.

6	Navigation button	Allows you to scroll through menus and highlight items. When the phone is on-hook, it becomes a shortcut key as follow: "Up": Adjust ring volume，operate with the "down" button "Down": Open "Missed Calls" list: "Left": Open "Received Calls" list; "Right": Open "Dialed Numbers" list.
7	OK	OK button: To confirm the action.
8	C	Back button: Return to the standby interface.
9	CONFERENCE	Conference button: Connect calling / called party to the conference.
10	TRANSFER	Transfer button：Transfer redirects a connected call.
11	HOLD	Hold button: Put a call on hold.
12	REDIAL	Redial button: To dial the last number.
13	Speaker button	Speaker button: Toggles the speakerphone on or off. Red, steady: Pick up and enter normal call.
14	Speaker	Sounds output when hands-free.
15	Handset	Use to sounds in/output.
16	Handset cord	Connects between handset and phone.
17	LCD screen	16*2 characters, grayscale LCD with background light.
18	Light strip	Red flashing: There are incoming call； Red, steady: Missed Calls, or phone busy;
19	Hands-free microphone	Sounds input when hands-free

Understanding Phone Screen Features

This is what your main phone screen might look like:

Figure 3.3 Dynamix E210 IP Phone LCD



	Screen displays	Functions
1	Date	Show current date (You can set with different sources , the more *7. Web Setting*)
2	Time	Show current time (You can set with different sources , the more *7. Web Setting*)
3	Line status	Show the phone line status: 1) LAN: Disconnect : Disconnect into network. 2) Peer-to-Peer : Only Peer-to-Peer call. 3) 8001:Down : Network connected normal, but the line is not successfully registered. 4) 8001:UP : Network is OK and the line is available. 5) 8001:DND : Line is turned on DND.

4. Basic Call Handling

You can perform basic call-handling tasks using a range of features and services. Feature availability can vary; see your system administrator for more information.

Note: The bold type of the following text in table signifies the phone's button.

Placing a Call

Here are some easy ways to place a call on Dynamix E210 IP Phone :

<table>
<tr><th>If you want to...</th><th colspan="2">Then…</th></tr>
<tr><td>Place a call using the handset</td><td>Pick up the handset</td><td rowspan="3">--1) You can hear dial tone;
--2) Enter a number ;
--3) Press # button (default) ,
-or wait 5s (default), then it send the number automatically.</td></tr>
<tr><td>Place a call using a speakerphone</td><td>Press Speaker button</td></tr>
<tr><td>Place a call using a headset</td><td>Put on your headset, active Headset button so that the status light is Red , and then do as using speakerphone</td></tr>
<tr><td>Redial</td><td colspan="2">--Press REDIAL button to dial the last number,
-or press Navigation button-Right (in Standby interface) > “Dialed number”, select a number, and press Dial or OK button.</td></tr>
<tr><td>Dial from a call log</td><td colspan="2">--1) Press MENU or OK button > “Call history”, you can select “Missed calls”, “Received calls” and “Dialed numbers”,
- or press Navigation button (in Standby interface) > select “Missed calls” (down), “Received calls” (left) and “Dialed numbers” (right)) ;
--2) Then press OK button or Dial.</td></tr>
</table>

Tips

• You can dial on-hook, without a dial tone (pre-dial). To pre-dial, enter a number, and then go off-hook by lifting the handset or pressing **Headset** or **Speaker** button.

• If you make a mistake while dialing, press **C** button to erase digits.

Answering a Call

You can answer a call by simply lifting the handset, or you can use other options if they are available on Dynamix E210 IP Phone.

<table>
<tr><th>If you want to...</th><th colspan="2">Then...</th></tr>
<tr><td>Answer with a handset</td><td rowspan="3">--1) Your phone ring;
--2) Light strip is Red and flashing</td><td>--Pick up the handset</td></tr>
<tr><td>Answer with the speakerphone (Non-headset mode)</td><td>--Press Speaker button</td></tr>
<tr><td>Answer with the a headset</td><td>--Put on headset, press Headset button so that the status light is Red , and then do as using speakerphone</td></tr>
<tr><td>Auto-answer</td><td colspan="2">--1) Press MENU or OK button > “Function setting” > “Auto answer”;
--2) Select “Enable”;
--3) Your phone answers incoming calls automatically after a few rings.</td></tr>
</table>

Tips

• Your system administrator configures Auto-answer to use either the speakerphone or a headset. You might use Auto-answer if you receive a high volume of incoming calls.

Ending a Call

To end a call, hang up. Here are some more details.

If you want to...	Then...
Hang up while using the Handset	-- Return the handset to its cradle
Hang up while using the speakerphone	-- Press **Speaker** button that is Red
Hang up while using the Headset	--Press **Handset** button, (Do not keep the headset mode)

Using Hold and Resume (Switch Calling Line)

You can hold and resume calls.

If you want to...	Then...
Put a call on hold	Press **HOLD** button
Resume a call	Press **HOLD** button

Tips

• Engaging the Hold feature typically generates music or a beeping tone.

Transfer Calls

Transfer redirects a connected call. The target is the number to which you want to transfer the call.

If you want to...	Then...
Talk to the transfer recipient before transferring a call (consult transfer)	--1) Press **TRANSFER** button; --2) Enter number; --3) press "#" (default), -or wait five seconds(default)then transfer the call

Using Mute

With Mute enabled, you can hear other parties on a call but they cannot hear you. You can use mute in conjunction with the handset, speakerphone, or a headset.

If you want to...	Then...
Toggle Mute on	Press **Mute** button, then the status light of mute is Red
Toggle Mute off	Press **Mute** button, then the status light is off

Do Not Disturb

You can use the Do Not Disturb (DND) feature to block incoming calls on your phone with a busy tone (Can also be set to their voice mail or other extension numbers, etc.).

If you want to...	Then...
Enable DND on a line	--1) Press **MENU** or **OK** button > "Function setting" > "DND" > (select line) "Enable" --2) All enabled line on the phone would changes to 8001:DND status.
Disable DND	Press **MENU** or **OK** button > "Function setting" > "DND" >(select line) "Disable"

3-way Conference

You can establish a three-party conference, during the conversation three phone parties can communicate with each other.

If you want to...	Then...
Invite the transfer recipient into a conference in a transferring	--1) When the transfer recipient answer the call, press **CONFERCENCE** button on your phone; --2) Then the held one, transfer recipient and you will be into a conference, and the LCD will display conferenc 0:0:10 status.
Invite the third party into a conference in a active call	--1) Press **CONFERENCE** button in an active call; --2) Enter the third party number ; --3) After connected the third party, press **CONFERENCE** button again

5. Advanced Call Handling

Using the Phone Book

You can store a large number of contacts in your phone's directory. You can add, edit, delete, dial, or search for a contact in this directory. However, it only can configure the phone book on web page in Dynamix E210 IP Phone. For details, you can refer to *7.Web Settings*.

However, you can dial from Phone Book on the phone after setting phone book on web page.

Call from phone book	--1) Press **MENU** button > "Phone book", --2) Select "View ALL", -or select a contact who are belong to different group; --3) Select a contact and a number, then press **OK** button

Using Call Logs

Your phone maintains records of your missed, placed, and received calls.

If you want to…	Then…
View your call logs	--1) Press **MENU** button > "Call history" > "Missed Calls", "Received Calls", or "Dialed numbers" --2) Use the navigation keys to view the call record information.
Dial from a call log	Please refer to the previous part *4.Basic call handing – Placing a call.*

Tips

• Each call log store up to 20 entries on Dynamix E210 IP Phone.

6. Keypad Instruction

Dynamix E210 IP Phone are can be configured in two ways. The first you can use the phone keypad where you can settings for you IP phones, the other you can log in to User Options web pages where you can settings for you IP phones.
Use phone keypad to setting. Press **MENU** or **OK** button to the main menu, Use the navigation keys to select menu, press **OK** button to confirm menu selections, press **C** button or Del to delete input information.

Tips
• When you want to type "." in setting IP address with keypad, you can press * button.

SIP Account Settings

Dynamix E210 IP Phone series IP phone make calls based on sip accounts.

If you want to…	Then...
Create an SIP account	--1) Select "System setting" > "Advanced setting"; --2) Enter the password required（The default is empty); --3) Select "SIP" > "Account sip"; --4) Select one of the account you want to setting, you can configure the following parameters -**Enable account***: Select Enable -**Display Name**: The name displayed on the screen -**User Name***: the account matched with the SIP server.（extension number), -**Authen usr**: the Authenticated users matched with the SIP server.（The default With the same account) -**user pwd***: the user password matched with the SIP server -**Description**: description of this account, -**SIP1***: the primary SIP server, By default all calls through the server,

	-**SIP2**: the secondary SIP , When the primary server is unavailable ,use the SIP server -**Refresh time**: Registration refresh interval, the minimum value is 20 The default value is 3600. --5) Set up the above parameters, select "Submit changes" to saves settings, Complete the account creation. * **Note**: the parameters with the * mark must be set.
Disable sip account	--1) Select "System setting" > "Advanced setting"; --2) Enter the password required（The default is empty); --3) Select "SIP" > "Account sip"; --4) Select "Enable account" > "Disable"; --5) Select "Submit changes" to saves settings.

Network Setting

If you want to …	Then…
network setting	--1) Select "System setting" > "Advanced setting"; --2) Enter the password required（The default is empty); --3) Select "Network", you can configure the following parameters: -**Type**: static IP or DHCP -**IP**: enter IP address , Note: Do not duplicate the IP address with other devices on the network -**Mask**: enter appropriate sub mask -**GW**: enter appropriate gateway - **DNS1**: enter IP address of the primary DNS server - **DNS2**: enter IP address of the secondary DNS server -**Web port**: the default Web port is 80, if you change it (for example change it to 88),you must use IP and Web port to login the web page (for example http://192.168.0.200:88).It will take effect on next reboot.

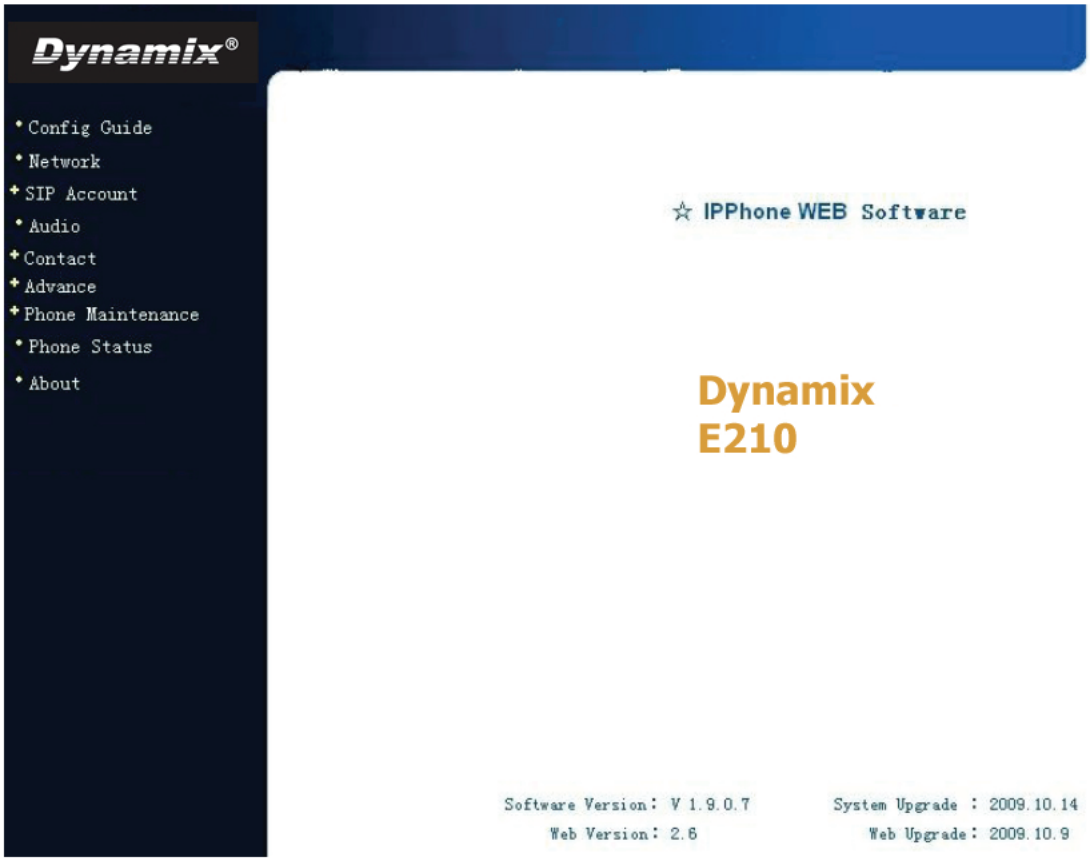
	-**Telnet port**: the default Telnet port is 23, if you change it (for example change it to 2003), you must use IP and Telnet port to login the manage page (for example telnet 192.168.0.200:2003).It will take effect on next reboot.

Customizing Rings and Volume

If you want to…	Then…
Change the ring tone	--1) Select "System setting" > "Phone setting" > "Ring type"; --2) Press navigation to Select ring tone
Adjust the volume level	--1) Select "System setting" > "Phone setting" > "Volume setting" --2) You can adjust the volume level of following types -**Ring volume**: Phone call ring volume, -**Handset volume**: Handle output volume, -**Handset mic volume**: Handle input volume, -**Speaker volume**: Hands-free speaker output volume, -**Speaker mic volume**: Hands-free input volume, -**Headset volume**: Headphone output volume, -**Headset mic volume**: Headset microphone input volume

7. Web Settings

We can configure Dynamix E210 IP Phone more handy through web setting. Press OK button on the keypad of the phone to enter the status page and find out the IP address of IP phone. Enter it (for example http://192.168.0.200) into the address bar of web browser. The default login name and password are both "root".



Account and Sip server

The phone attempts to register to the SIP server using the account/registrar data provided by the automatic or manual initialization.

Choose Account, you will find the following parameters:

Field	Description
Enable	You can choose on/off to enable/disable the line.
Display Name	It is showed as Caller ID when making a phone call
Username	It is authenticated ID for authentication
Authenticate Name	It is authenticated ID for authentication
Password	It is provided by administrator for registration
SIP Server	Server for registration, provided by administrator
Register Expire Time	IP phone automatically registered every time

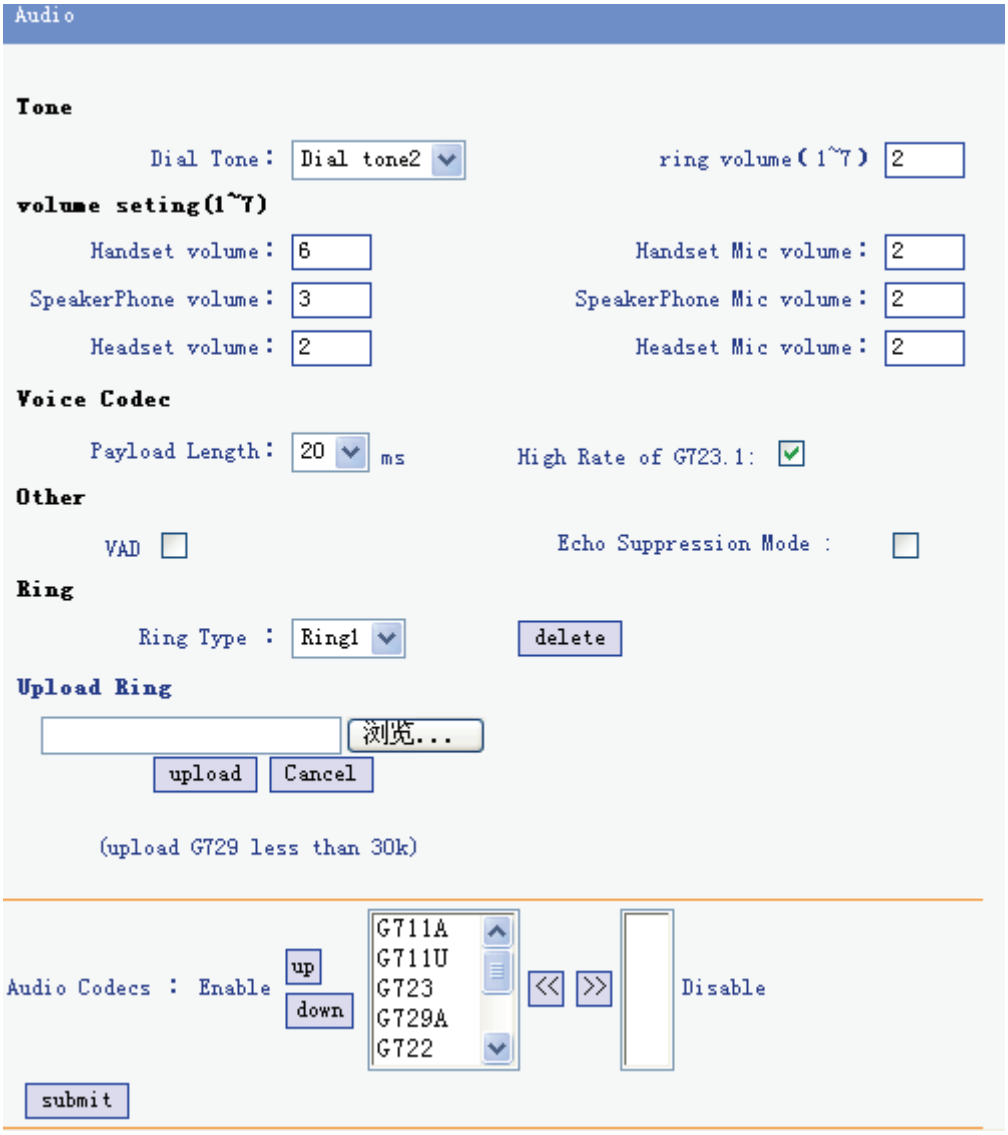
Codec Selection

The IP phone supports the following voice codecs: G.722, G.711A, G.711U, G.723, and G.729A.

You can enable/disable the desired codecs via Web interface. Please contact your System Administrator for more details about the codecs.

To enable/disable the codecs:

1) Choose Audio-> Audio Codecs



2) Use the navigation keys to highlight the desired one in the Enabled/Disable Codecs list, and press the >> / << to move to the other list.

3) Choose “Submit” to save the change.

Of course, you can control the voice bulk in this choose.

Contact

You can add, edit and delete contact in a phone book on web page of Dynamix E210 IP Phone.

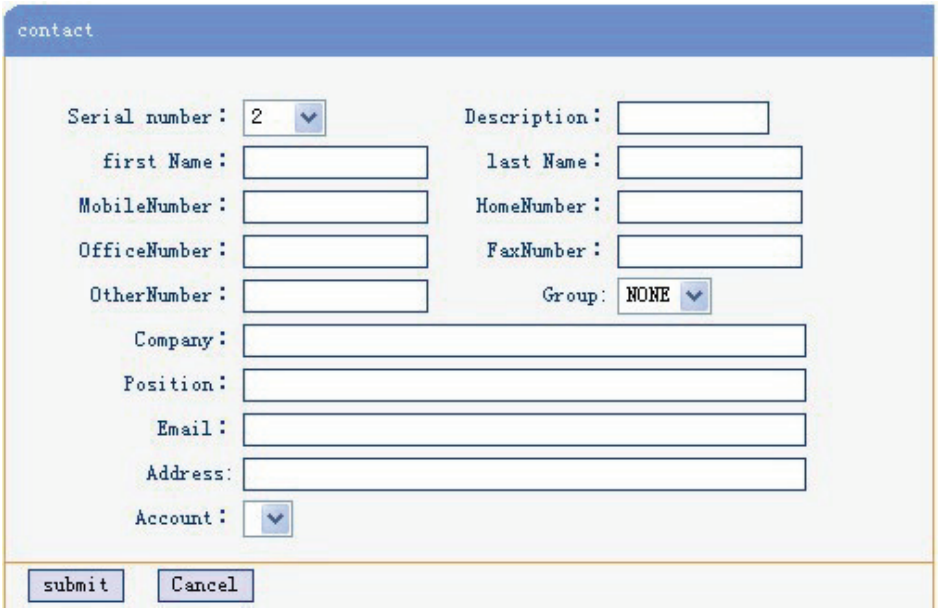
1) Click “Contact” > “Phone book”,

If you want to add a contact, you just ought to click Add Contact .

You can edit an existed contact by click .

You can delete an existed contact by click , if you want to delete all contacts, you just ought to click Delete All Contact .

2) When you add a contact or edit an existed contact, you can set several parameter as follow:



Phone book	
Serial number	Serial number of a contact
Description	Description of a contact
Name	Name of a contact
Phonen	You can add 5 different phone number for every contact
Group	You can assign a contact to a specific group. If there isn’t any group set on the phone, the group is None by default.
Account ID	Select a SIP account relating this contact, that is you can dial to the contact from this SIP account.

3) Besides, you can add, edit and delete group by click “Contact” > “Group”. The operation is similar to phone book.

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